

Message Text

LIMITED OFFICIAL USE

PAGE 01 GENEVA 03252 01 OF 03 291855Z

ACTION IO-13

INFO OCT-01 EUR-12 EA-07 NEA-10 ISO-00 CIAE-00 H-01

INR-07 L-03 NSAE-00 OIC-02 OMB-01 PA-01 PM-04

PRS-01 SP-02 SS-15 USIA-06 TRSE-00 NSC-05 ACDA-07

AF-10 ARA-06 COME-00 INT-05 /119 W

-----292122Z 059736 /63

R 291749Z APR 77

FM USMISSION GENEVA

TO SECSTATE WASHDC 6960

INFO AMEMBASSY BONN

AMEMBASSY LONDON

AMEMBASSY MOSCOW

AMEMBASSY THE HAGUE

AMEMBASSY ROME

AMEMBASSY STOCKHOLM

AMEMBASSY OTTAWA

AMEMBASSY TOKYO

AMEMBASSY NEW DELHI

USMISSION USNATO

ERDA HQ WASHDC

ERDA GERMANTOWN

SECDEF WASHDC

LIMITED OFFICIAL USE SECTION 1 OF 3 GENEVA 3252

E.O.11652: NA

TAGS: PARM, CCD

SUBJECT: CCD: WRAP-UP REPORT FOR THIRD ROUND OD AD HOC
SEISMIC EXPERTS GROUP

1. THE AD HOC GROUP OF SCIENTIFIC EXPERTS TO CONSIDER
INTERNATIONAL COOPERATIVE MEASURES TO DETECT AND TO IDENTIFY
SEISMIC EVENTS HELD ITS THIRD ROUND FROM 25 TO 29 APRIL
IN GENEVA. THE TOTAL NUMBER OF COUNTRIES ATTENDING THE SESSION
REACHED 25 WITH THE ADDITIONS OF PAKISTAN AND NEW ZEALAND.
LIMITED OFFICIAL USE

LIMITED OFFICIAL USE

PAGE 02 GENEVA 03252 01 OF 03 291855Z

PROGRESS WAS ACHIEVED ON SEVERAL DRAFT CHAPTERS OF THE GROUP'S
REPORT. THESE INCLUDED SELECTION OF SEISMOGRAPHIC STATION
FOR A GLOBAL NETWORK, DATA EXCHANGE BETWEEN SELECTED STATIONS
AND DATA CENTERS, DATA CENTERS FOR DETECTION AND LOCATION
OF SEISMIC EVENTS AND FOR REDUCTION OF IDENTIFICATION
PARAMETERS, ESTIMATED CAPABILITY OF A SPECIFIED SYSTEM
OF INTERNATIONAL COOPERATIVE MEASURES, AND PROBLEMS

WITH THE ESTIMATION OF YIELDA FROM SEISMIC SIGNALS. IN THE GROUP'S DELIBERATIONS ON THE COMPOSITION OF A NETWORK OF STATIONS, THE VIEW WAS EXPRESSED, FOR REASONS OF EFFICIENCY AND SCIENTIFIC PRECISION, THE INCLUSION OF SEISMOLOGICAL STATIONS IN CENTRAL AND SOUTH AMERICA AND AFRICA WAS EXTREMELY IMPORTANT. THE USSR DELEGATION, LEAD BY PROFESSOR PASSECHNIK, WAS GENERALLY ACTIVE AND CONTRUCTIVE, AND EXHIBITED A POSITIVE VIEW TOWARD MULTI-NATIONAL DATA EXCHANGE THROUGH INTERNATIONAL SEISMIC DATA COLLECTION CENTERS UNDER A CTBT. THE GROUP AGREED, SUBJECT TO CONFIMATION BY THE CCD, TO HOLD ITS NEXT SESSION FROM 25 JULY TO 5 AUGUST 1977 IN GENEVA. END SUMMARY.

2. DRAFT CHAPTERS OF THE FINAL REPORT ON THE FOLLOWING SUBJECTS WERE SUBMITTED TO AND DISCUSSED BY THE EXPERTS GROUP. THESE DISCUSSIONS ARE SUMMARIZED BELOW:

(A) PROBLEMS WITH THE ESTIMATION OF YIELDS FROM SEISMIC SIGNALS: THE DRAFT SECTION PREPARED BY THE SWEDISH EXPERT REVIEWED SEVERAL THEORETICAL AND EMPIRICAL STUDIES ON SEISMIC YIELD DETERMINATION PUBLISHED IN THE OPEN LITERATURE. THIS REVIEW IHCLUDES SEVERAL EXAMPLES OF FORMULAE OF THE GENERALLY ACCEPTED FORM THAT LINEARLY RELATES SEISMIC MAGNITUDE TO THE LOGARITYM OF YIELD. GEOLOGIC ROCK TYPES ARE GIVEN FOR THE EXPLOSION MEDIUM IN EACH OF THESE EXAMPLES. THE MAIN POINT OF CONTENTION WITH THE SWEDISH DRAFT WAS A SECTION WHICH INCLUDED DIFFERENT MAGNITUDE-YIELD RELATIONSHIPS FOR "US" AND "USSR" EXPLOSIONS. THE US EXPERT STRONGLY OBJECTED TO THIS MATERIAL ON THE LIMITED OFFICIAL USE

LIMITED OFFICIAL USE

PAGE 03 GENEVA 03252 01 OF 03 291855Z

GROUNDS THAT SUCH FORMULAE WERE DEPENDENT ON SOURCE MEDIUM AND PROPAGATION EFFECTS AND NOT ON NATIONAL BOUNDARIES AND THAT YIELDS OF THE THIRTY OR MORE USSR EXPLOSIONS USED IN THE ANALYSIS HAD BEEN INFERRED FROM SOME UNKNOWN PROCESS. THE USSR EXPERT CRITICIZED THIS SECTION OF THE SWEDISH DRAFT BECAUSE, IN HIS OPINION, A GIVEN MAGNITUDE-YIELD RELATIONSHIP DOES NOT APPLY OF ALL YIELD RANGES. AFTER FURTHER OPEN DISCUSSION AND INFORMAL PRIVATE CONSULTATIONS THE SWEDISH EXPERTS AGREED TO REDRAFT THIS SECTION, WHICH WILL APPEAR AS AN APPENDIX TO THE FINAL REPORT, ALONG LINES WHICH SHOULD BE MORE SUITABLE TO US. THIS SECOND DRAFT WILL BE SUBMITTED FOR DISCUSSION AT THE SUMMER MEETING OF THE GROUP.

LIMITED OFFICIAL USE

NNN

LIMITED OFFICIAL USE

PAGE 01 GENEVA 03252 02 OF 03 292106Z
ACTION IO-13

INFO OCT-01 EUR-12 EA-07 NEA-10 ISO-00 CIAE-00 H-01
INR-07 L-03 NSAE-00 OIC-02 OMB-01 PA-01 PM-04
PRS-01 SP-02 SS-15 USIA-06 TRSE-00 NSC-05 ACDA-07
AF-10 ARA-06 COME-00 INT-05 /119 W
-----292122Z 063840 /63

R 291749Z APR 77
FM USMISSION GENEVA
TO SECSTATE WASHDC 6961
INFO AMEMBASSY BONN
AMEMBASSY LONDON
AMEMBASSY MOSCOW
AMEMBASSY THE HAGUE
AMEMBASSY ROME
AMEMBASSY STOCKHOLM
AMEMBASSY OTTAWA
AMEMBASSY TOKYO
AMEMBASSY NEW DELHI
USMISSION USNATO
ERDA HQ WASHDC
ERDA GERMANTOWN
SECDEF WASHDC

LIMITED OFFICIAL USE SECTION 2 OF 3 GENEVA 3252

(B) DATA EXCHANGE BETWEEN SELECTED STATIONS AND
DATA CENTERS. THIS DISCUSSION WAS GUIDED BY AN OUTLINE
PROVIDED BY THE JAPANESE EXPERT AND IT FOCUSED ON THE
COMMUNICATIONS SYSTEMS TO BE USED IN THE EXCHANGE OF
SEISMIC DATA, THE FORMAT OF THE DATA MESSAGES, TIME
SCHEDULES FOR DATA REPORTING, AND MEANS OF ENTERING
DATA REPORTS INTO GLOBAL COMMUNICATIONS NETWORK. THERE
WAS GENERAL AGREEMENT IN THE GROUP THAT THE CURRENT
COMMUNICATIONS NETWORK OF THE WORLD METEOROLOGICAL
NETWORK (WMO) SHOULD BE USED IN EXCHANGE OF RELEVANT
LIMITED OFFICIAL USE

LIMITED OFFICIAL USE

PAGE 02 GENEVA 03252 02 OF 03 292106Z

SEISMIC DATA. THIS NETWORK IS PRESENTLY USED FOR THE
INFORMAL REPORTING OF SEISMIC DATA BUT ON A MUCH SMALLER
SCALE THAN IS BEING PROPOSED BY THE EXPERTS' GROUP. A
FLEXIBLE DATA FORMAT CURRENTLY USED IN SEISMIC REPORTS
TO THE UNITED STATES NATIONAL EARTHQUAKE INFORMATION

SERVICE WAS FOUND ADEQUATE FOR THE PURPOSE OF THE GROUP. THE QUESTION OF THE TIME SCHEDULE FOR REPORTING OF THE VARIOUS TYPES OF SEISMIC DATA WAS NOT FULLY RESOLVED. THE US EXPERT SUGGESTED THAT THE STATION DATA SHOULD BE REPORTED INTO THE DATA SYSTEM AT LEAST IN THE DAY FOLLOWING RECORDING. A QUESTION REMAINS CONCERNING THE EASE WITH WHICH DATA FROM REMOTE SITES CAN BE ENTERED INTO THE WMO NETWORK. THIS QUESTION IS BEING INVESTIGATED AND WILL BE REPORTED ON AT THE NEXT MEETING ALONG WITH THE QUESTION OF THE GENERAL RELIABILITY OF THE WMO NETWORK.

(C) DATA CENTERS FOR DETECTION AND LOCATION OF SEISMIC EVENTS AND FOR REDUCTION OF IDENTIFICATION PARAMETERS. THIS DISCUSSION CENTERED ON A DRAFT WRITTEN BY THE UK EXPERT INCLUDED STRONG EXPRESSIONS OF VIEWS BY SEVERAL EXPERTS. ONE PROBLEM WAS THAT TERMS LIKE "NATIONAL CENTERS" AND "INTERNATIONAL CENTERS" WERE USED WITHOUT PRECISE DEFINITION OR COMMON UNDERSTANDING BY THE EXPERTS. THE USSR EXPERT RESTATED A PROPOSAL GIVEN AT THE LAST ROUND THAT AN "INTERNATIONAL CENTER" BE LOCATED IN MOSCOW. THE ISSUE OF HOW MANY INTERNATIONAL DATA CENTERS SHOULD BE ESTABLISHED WAS DELIBERATED FOR SOME TIME. AT ONE POINT IN THEIR DISCUSSION THE US EXPERT STATED THAT THE GROUP SHOULD EXAMINE SEVERAL OPTIONS FOR AN INTERNATIONAL SEISMIC DATA EXCHANGE SYSTEM AND IN RESPONSE TO A QUESTION BY THE CHAIRMAN, RAISED THE ISSUE THAT NO INTERNATIONAL CENTER BE ESTABLISHED AND THAT EXCHANGE TAKE PLACE DIRECTLY BETWEEN NATIONAL CENTERS. THE RESULTING CRITICISM WAS SUBSTANTIAL WITH THE COMMENT OF THE USSR EXPERT BEING PARTICULARLY STRONG. THE USSR EXPERT STATED THAT IT WAS EASY FOR THE US TO HAVE THIS POSITION BECAUSE LIMITED OFFICIAL USE

LIMITED OFFICIAL USE

PAGE 03 GENEVA 03252 02 OF 03 292106Z

THEY ALREADY HAD A WORLD-WIDE DATA COLLECTION SYSTEM. IN TERMS OF THE GROUP'S STUDY AND ITS POSSIBLE IMPLICATIONS ON A MULTILATERAL CTB, THE USSR FELT THAT ANY SUGGESTION OF NO INTERNATIONAL DATA CENTER WAS A STEP BACKWARDS. (COMMENT: THE US EXPERTS FEEL THAT THEY WILL MOST PROBABLY BE ALONE IN PUSHING FOR A DISCUSSION OF THIS OPTION IN THE FINAL REPORT). THE ISSUE OF INTERNATIONAL DATA CENTERS MAKING ANNOUNCEMENTS CONCERNING POSSIBLE VIOLATIONS TO A TREATY WAS RAISED BY THE NETHERLANDS; HOWEVER, THIS FOUND NO SUPPORT FROM THE OTHER EXPERTS. A SECOND DRAFT OF THE CHAPTER ON THIS TOPIC WILL BE THE SUBJECT OF A WORKING GROUP MEETING TO BE HELD PRIOR TO THE NEXT PLENARY MEETING OF THE GROUP.

LIMITED OFFICIAL USE

NNN

LIMITED OFFICIAL USE

PAGE 01 GENEVA 03252 03 OF 03 292059Z

ACTION IO-13

INFO OCT-01 EUR-12 EA-07 NEA-10 ISO-00 DODE-00 CIAE-00

H-01 INR-07 L-03 NSAE-00 OIC-02 OMB-01 PA-01

PM-04 PRS-01 SP-02 SS-15 USIA-06 TRSE-00 NSC-05

ACDA-07 AF-10 ARA-06 COME-00 INT-05 /119 W

-----292121Z 063549 /63

R 291749Z APR 77

FM USMISSION GENEVA

TO SESTATE WASHDC 6962

INFO AMEMBASSY BONN

AMEMBASSY LONDON

AMEMBASSY MOSCOW

AMEMBASSY THE HAGUE

AMEMBASSY ROME

AMEMBASSY STOCKHOLM

AMEMBASSY OTTAWA

AMEMBASSY TOKYO

AMEMBASSY NEW DELHI

USMISSION USNATO

ERDA HQ WASHDC

ERDA GERMANTOWN

SECDEF WASHDC

LIMITED OFFICIAL USE SECTION 3 OF 3 GENEVA 3252

(D) ESTIMATED CAPABILITY OF SPECIFIED MONITORING SYSTEM. US EXPERT PRESENTED RESULTS OF INITIAL STUDIES TO ESTIMATE DETECTION AND LOCATION CAPABILITY OF THE NETWORK SPECIFIED BY THE GROUP. SEVERAL EXPERTS GAVE COMMENTS AND CRITICISMS AND THE GENERAL FEELING WAS FOR EXTENDING THESE STUDIES TO INCLUDE OTHER NETWORKS, STATION NOISE CONDITIONS, AND GEOPHYSICAL PARAMETERS. IT WAS AGREED THAT NETWORKS MADE UP OF SEISMIC STATIONS LOCATED IN COUNTRIES, SHOULD BE STUDIED AS WELL AS A NETWORK BASED SOLELY ON SCIENTIFIC CONSIDERATIONS. IN THE COURSE
LIMITED OFFICIAL USE

LIMITED OFFICIAL USE

PAGE 02 GENEVA 03252 03 OF 03 292059Z

OF THE GROUP'S DISCUSSION ON THE COMPOSITION OF A NETWORK OF STATIONS, THE VIEW WAS EXPRESSED THAT, FOR REASONS OF EFFICIENCY AND SCIENTIFIC PRECISION, THE INCLUSION INTO

THIS NETWORK OF STATIONS SITUATED IN CENTRAL AND SOUTH AMERICA AND AFRICA WAS EXTREMELY IMPORTANT. (COMMENT: GROUP CHAIRMAN (ERICSSON) AND UK EXPERT (THIRLAWAY) IN CONVERSATION IN WHICH DELOFF (HECKROTTE) WAS PRESENT STATED THAT BRAZIL DECLINED TO PARTICIPATE BECAUSE OF RESENTMENT OVER CRITICISM THEY HAVE RECIEVED OVER NUCLEAR CONTRACT WITH FRG).

3. THE FINAL MEETING OF THIS ROUND WAS DEVOTED TO DISCUSSIONS OF PLANS FOR NEXT MEETING AND GUIDELINES FOR THE DRAFTORS OF CHAPTERS ON THE COST OF THE PROPOSED SYSTEM AND THE DESIGN OF AN EXPERIMENTAL EXERCISE OR EXERCISES TO TEST THE TECHNICAL AND SCIENTIFIC CAPABILITIES OF THE SYSTEM. GUIDELINES FOR THE LATTER COULD NOT BE AGREED TO ALTHOUGH IT BECAME CLEAR AFTER FURTHER CONSULTATIONS THAT THE UK AND JAPANESE EXPERTS FAVOR AN EXPERIMENTAL EXERCISE. THE USSR POSITION ON THIS POINT IS NOT CLEAR AT THIS TIME.

4. COMMENT: US EXPERTS FEEL THAT CONSIDERABLE ADDITIONAL COMMITMENT OF THEIR TIME AND ATTENTION WILL BE REQUIRED IN PROPER PREPARATION FOR THE NEXT ROUND OF MEETINGS AND TO INSURE THAT US INTERESTS ARE PROPERLY REFLECTED IN TH FINAL REPORT OF THE GROUP. SORENSON

LIMITED OFFICIAL USE

NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01-Jan-1994 12:00:00 am
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: SEISMOLOGY, SCIENTIFIC MEETINGS, MEETING REPORTS
Control Number: n/a
Copy: SINGLE
Sent Date: 29-Apr-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 22 May 2009
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1977GENEVA03252
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D770150-1058
Format: TEL
From: GENEVA
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1977/newtext/t1977046/aaaaaefu.tel
Line Count: 302
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: 5939b2a5-c288-dd11-92da-001cc4696bcc
Office: ACTION IO
Original Classification: LIMITED OFFICIAL USE
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 6
Previous Channel Indicators: n/a
Previous Classification: LIMITED OFFICIAL USE
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 22-Dec-2004 12:00:00 am
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 2812903
Secure: OPEN
Status: NATIVE
Subject: CCD: WRAP-UP REPORT FOR THIRD ROUND OD AD HOC SEISMIC EXPERTS GROUP
TAGS: PARM, CCD
To: STATE
Type: TE
vdkgvwkey: odhc://SAS/SAS.dbo.SAS_Docs/5939b2a5-c288-dd11-92da-001cc4696bcc
Review Markings:
Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
22 May 2009
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009